Listing of Claims

1. (Previously Presented) A fuel supply containing a fuel for use by a fuel cell comprising:

an outer casing encasing a fuel compartment containing the fuel, a reactant compartment and a reaction chamber;

wherein the fuel is transported to the reaction chamber and reacts to form reactants comprising hydrogen gas and liquid reactant, and thereafter the reactants are transported to the reactant compartment; and

wherein the hydrogen gas passes from the reactant compartment to the fuel cell.

2. (Original) The fuel supply of claim 1, wherein the reactant compartment comprises a gas permeable, liquid impermeable membrane, wherein hydrogen gas passes through the membrane to the fuel cell.

3. (Original) The fuel supply of claim 1, wherein the fuel cartridge further comprises a valve and the valve selectively allows hydrogen gas to pass through to the fuel cell.

4. (Original) The fuel supply of claim 1, wherein the fuel cartridge further comprises a pump to transport fuel from the fuel compartment to the reaction chamber.

5. (Original) The fuel supply of claim 1, wherein the outer casing is substantially impermeable to hydrogen gas.

6. (Original) The fuel supply of claim 5, wherein hydrogen gas is stored within the outer casing.

7. (Original) The fuel supply of claim 1, wherein the walls of the fuel compartment and the reactant compartment are integrally formed.

8. (Original) The fuel supply of claim 7, wherein the fuel compartment and the reactant compartment are separated by a movable wall.

9. (Original) The fuel supply of claim 8, wherein the movable wall forms a seal with the walls of the reactant compartment and fuel compartment.

10. (Original) The fuel supply of claim 9, wherein the seal comprises a wiper or an o-ring pressing against the walls of the reactant compartment and fuel compartment.

11. (Original) The fuel supply of claim 1, wherein the fuel comprises sodium borohydride.

12. (Original) The fuel supply of claim 11, wherein the liquid reactant comprise sodium borate.

13. (Original) The fuel supply of claim 11, wherein the reaction chamber comprises platinum or ruthenium.

14. (Original) The fuel supply of claim 1, wherein the fuel comprises methanol.

15. (Original) The fuel supply of claim 1, wherein the reaction chamber comprises a catalyst.

16. (Original) The fuel supply of claim 1, wherein the fuel compartment comprises a liner and the fuel is contained in the liner.

17. (Original) The fuel supply of claim 1, wherein the reactant compartment comprises a liner and the reactants are contained in the liner.

18-73. (Cancelled)

74. (Previously Presented) The fuel system of claim 1, wherein the reactant compartment retains the liquid reactant.